

MasterEase[®] 3032

Low Viscosity Concrete Concept

New superplasticizer technology imparts advanced rheological properties delivering a significant decrease in the viscosity of concretes and extended rheology maintenance

DESCRIPTION

The **MasterEase 3032** is a superplasticizer; high range water reducer designed to impart exceptional rheological properties to fresh concrete. It improves considerably the placing and finishing of concrete and enhances the pumping of concrete plants for construction activities.

INNOVATION

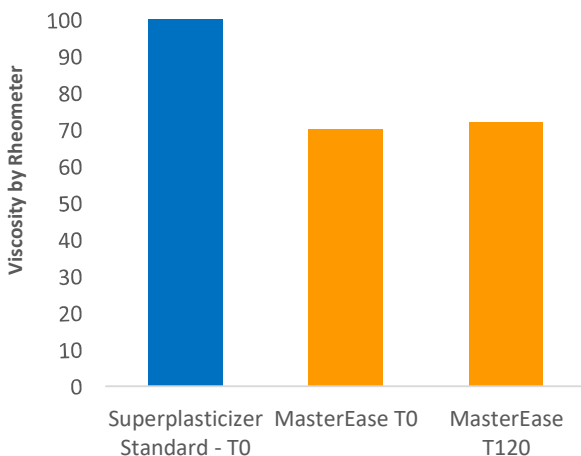
The **MasterEase 3032** is based on an innovative polymer chemistry and it is patented by BASF.

Its action differs from traditional superplasticizers, to the extent that the adsorption of polymers of **MasterEase 3032** on binder particles is provided by a flexible chemical bond which does not impede the flow of concrete. This innovation significantly improves rheological behaviour of concrete treated with **MasterEase 3032**, they have a low yield stress, and low viscosity.

LOW VISCOSITY CONCRETE

Low Viscosity Concrete is an innovative concept dedicated to the viscosity (rheology) of concrete and is based on the use of the **MasterEase** polymer. This concept not only allows the achievement of a significant reduction in concrete viscosity but also optimizing the performance of concrete.

MasterEase: Plastic viscosities of concrete S4
has a W/C 0.45, at T₀ and T₁₂₀



APPLICATION

The **MasterEase 3032** is recommended for the production of concrete requiring low viscosity and high compressive strength. It imparts additional benefit of robustness to the addition of water or the variation of moisture content of aggregates thus reducing the likelihood of segregation to the mixes.

It can be used to achieve the following:

- Concrete complying to EN 206
- Superior Concrete pumping
- Reduction of Concrete waste
- Ease of compacting and finishing concrete
- High performance and high strength concrete
- Concrete for low environmental impact and high in mineral additions

PROPERTIES

The **MasterEase 3032** delivers many advantages both in the fresh concrete on hardened concrete.

At fresh state, optimizing the rheology:

Decrease in the viscosity of concrete at constant W/C

Improvement in the implementation of concrete

- Improved pumping (lower pressure and longer distance)
- Better response to vibration
- Greater ease of pumping
- Superior finishing, floating and smoothing operations
- Excellent flexibility, mobility and flow of self-compacting concrete.

Possible reduction of W/C ratio without affecting the viscosity of concrete

- New windows for technical and economic optimization of concrete mix designs (addition and types of binder, choice of aggregates)
- High strength and resistance to segregation
- Good compatibility with all types of cement and mineral additions.

MasterEase[®] 3032

In the cured state, improvement of sustainability

- Excellent early and late compressive strength
- Improvement in quality of surface finishes
- As part of a reduction of W/C
 - a. Increased mechanical resistances
 - b. Decreased porosity and permeability
 - c. Decreased shrinkage and cracking
 - d. Enhanced durability

DOSAGE

Recommended range: 500ml to 1800ml per 100kg cement.

For other uses, please contact your local Master Builders Solutions representative.

The optimal effect is generally achieved by dosing **MasterEase 3032** in the concrete mix after addition of 70% of water in the mixer.

To use in synergy and combination with another Master Builders Solutions' product range, please consult your local Master Builders Solutions representative.

PACKAGING

The **MasterEase 3032** is available in 1000L IBC tank and bulk.

SHELF LIFE

MasterEase 3032 has a 12 month shelf life from the date of manufacture. It is recommended to stock it in temperature above +5°C.

PRECAUTIONS

Health: MasterEase 3032 does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

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